District I 1625 N French Dr , Hobbs, NM 88240 District II 1301 W Grand Avenue, Artesia, NM 88210 District III 1000 Rto Brazos Road, Aztec, NM 87410 District IV

State of New Mexico Form C-101
Energy Minerals and Natural Resources May 27, 2004

Oil Conservation Division
1220 South St. Francis Dr.
South Fa. NIM 87505

rancis Dr , S	Santa Fe, NN	1 87505		Sa	anta Fe, N	IM 875	505/ <b>E</b>			/	REFORT	
LICAT	ION FC	R PERMIT	TO D	RILL, F	RE-ENTI	ER, DI	EEPEN	EPEUGBA			ONE	
						OGRID Number 151416			Number			
					TX 79	Y 70701 API Number				umber 28471		
Property Code Property						Name Well.No						
581			C	7 Ranc	h "23"					783-10 Th	2075	
ldcat	(Atoka	Proposed Pool 1						10 Pro			188	
			_	<sup>7</sup> Surf	ace Loca	Location / Location						
Section 23	Township 12S			Feet from the 1980				Feet from the 660	East/Wes	t line . O Ze	County of	
_		<sup>8</sup> Propo	osed Bott	om Hole L	ocation If	Differen	t From S	urface	163		.8/	
Section	Township Range		1	Lot Idn Feet from the		1 1		Feet from the	East/Wes	t line C	ounty 1	
_						ormatic				VC 36 VU		
		G G			Rotary	14 Leas F		Р	P P P		3788 Elevation	
							<sup>19</sup> Contractor <b>Unknown</b>			<sup>20</sup> Spud Date 10/15/07		
ndwater	42 <b>'</b>		Distance	from nearest	fresh water we mile	ell		Distance from nearest surface water ereater than 1 i			mile	
Synthetic \$		s thick Clay	Pıt Volume	ebbls		Drilling Method.						
l-Loop Syste	m 🗆		240	000	Fre	sh Water	X Brine	Diesel/Oil-baser	i ☐ Gas/A	ır 🗀		
_		2	Propos	sed Casir	o and Ce	ment I	Program	1				
_		1						i				
Size	Ca	sing Size					<u> </u>		ement			
	1	3 3/8	48									
_,		9 5/8									ice	
-•	(7.4.)	7 1/2										
/8	(line)4 1/2		<del></del>	15.1 13500		3500		300		11100	<del>'</del> ——	
olowout pre cen Oil ca form	vention progi	ram, if any Use a	iditional sh • proj	poses t	sary to dril	1 the	07 Ra	anch "23"	No. 3	to test t	:he	
cen has	reach	ed agreem	ent w	ith the	a lando		Permit	Expires 1	Year F	rom Appro	val	
<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief I further certify that the drilling pit will be constructed according to NMOCD guidelines ⚠, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.						OIL CONSERVATION DIVISION						
				Appro	Approved by Chris William							
1 1000	//	mmy D. Ca	rlile	1	Title	Tule						
Printed name / Jimmy D. Carlile  Regulatory Affairs Coor.					Approval Date JUL OF DISTRICT SUPERVISOR/GENERAL MANAGE Expiration Date							
Date 6/28/07 Phone 432 687-1777					Condu	Conditions of Approval Attached Wheest deg Elevel and						
	Section  Section  Section  Section  Section  Section  Type Code  Multiple  Individual Synthetic Market  Synthetic Market	Section Township  Section Township  123 T2S  Section Township  Type Code  fulltiple  Type Code  Typ	Section Township Range  Type Code Section Township R	Section Township Range Lot 23 12S 38E  Section Township Range Lot 23 12S 38E  Section Township Range Lot 17 Proposed Depth 13500 andwater 42  Distance 24  Distance 25  Distance 26  Distance 26  Distance 27  Distance 27  Distance 28  Distance 29  Distance 29  Distance 20  Distan	Section   Township   Range   Lot Idn   For   Section   Township	Compared Permit To Drill, Re-Entity of Sken Oil and Ranch, Ltd.	Sken Oil and Ranch, Ltd.  3 West Wall, Suite 1800 Midland, TX 79701  Strong Code	Section   Township   Range   Lot Idn   Feet from the   NorthSouth line   Section   Township   Range   Lot Idn   Feet from the   NorthSouth line   Section   Township   Range   Lot Idn   Feet from the   NorthSouth line   Section   Township   Range   Lot Idn   Feet from the   NorthSouth line   Section   Township   Range   Lot Idn   Feet from the   NorthSouth line   Section   Township   Range   Lot Idn   Feet from the   NorthSouth line   Additional   Well Information   Township   Range   Lot Idn   Feet from the   NorthSouth line   Additional   Well Information   Township   Range   Lot Idn   Feet from the   NorthSouth line   Additional   Well Information   Township   Range   Lot Idn   Feet from the   NorthSouth line   Additional   Well Information   Township   Range   Lot Idn   Feet from the   NorthSouth line   Additional   Well Information   Township   Range   Lot Idn   Feet from the   NorthSouth line   Additional   Well Information   Township   Range   Lot Idn   Feet from the   NorthSouth line   Additional   Well Information   Township   Range   Lot Idn   Feet from the   NorthSouth line   Additional   Township   Range   Lot Idn   Feet from the   NorthSouth line   Additional Part   Township   Range   Township	CLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN. PEBGBA Operator Name and Address sken 0f1 and Ranch, Ltd. 3 West Wall, Suite 1800 Midland, TX 79701 30- 20 Oyk OP Ranch "23"  Addat (Atoka) Proposed Pool I  7 Surface Location Section Township Range Lot Idn Feet from the North South Ince Section Township Range Lot Idn Feet from the North South Ince Section Township Range Lot Idn Feet from the North South Ince Section Township Range Lot Idn Feet from the North South Ince Section Township Range Lot Idn Feet from the North South Ince Section Township Range Lot Idn Feet from the North South Ince Section Township Range Lot Idn Feet from the North South Ince Section Township Range Lot Idn Feet from the North South Ince Section Township Range Lot Idn Feet from the North South Ince Section Township Range Lot Idn Feet from the North South Ince Section Township Range Lot Idn Feet from the North South Ince Section Township Range Lot Idn Feet from the North South Ince Section Township Range Lot Idn Feet from the North South Ince Section Township Range Lot Idn Spring Code Robert Program  Type Code Robert Program Ince Section Township Range Lot Idn Feet from the North South Ince Section Township Range Lot Idn Feet from the North South Ince Type Code Robert Program Ince Section Township Range Lot Idn Feet from the North South Ince Spring Code Robert Program Ince Spring Code Robert Program Reserve Well Distance from Spring Reserve Well Distance For Spring Reserve Well Distance F	Section Township Range Lot lab Preposed Bottom Hole Location If Different From Surface  Section Township Range Lot lab Preposed Bottom Hole Location If Different From Surface  Section Township Range Lot lab Preposed Bottom Hole Location If Different From Surface  Section Township Range Lot lab Preposed Problem Proposed Bottom Hole Location If Different From Surface  Additional Well Information  Type Code "Well Type Code Robary "Leave	Section   Township   Reage   Lat bit   Feet from the   Township   Township   Township   Reage   Lat bit   Feet from the   Township   Townsh	

DISTRICT I 1625 N. French Dr., Hobbs, NN 88240 DISTRICT II 1301 W. Grand Avenue, Artesia, NM 88210

# State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

## DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

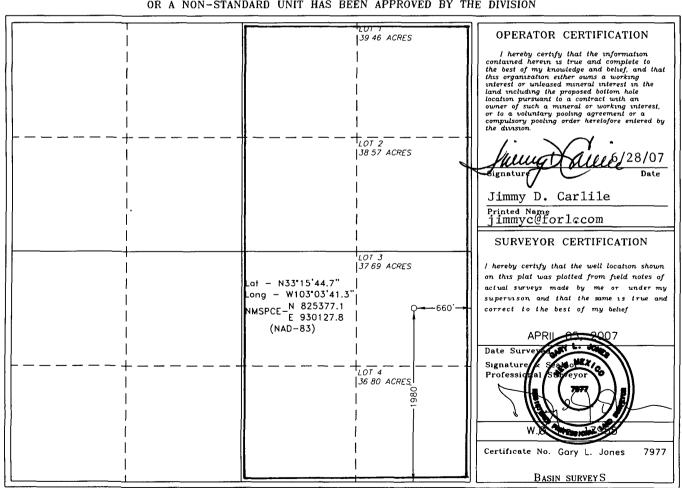
DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

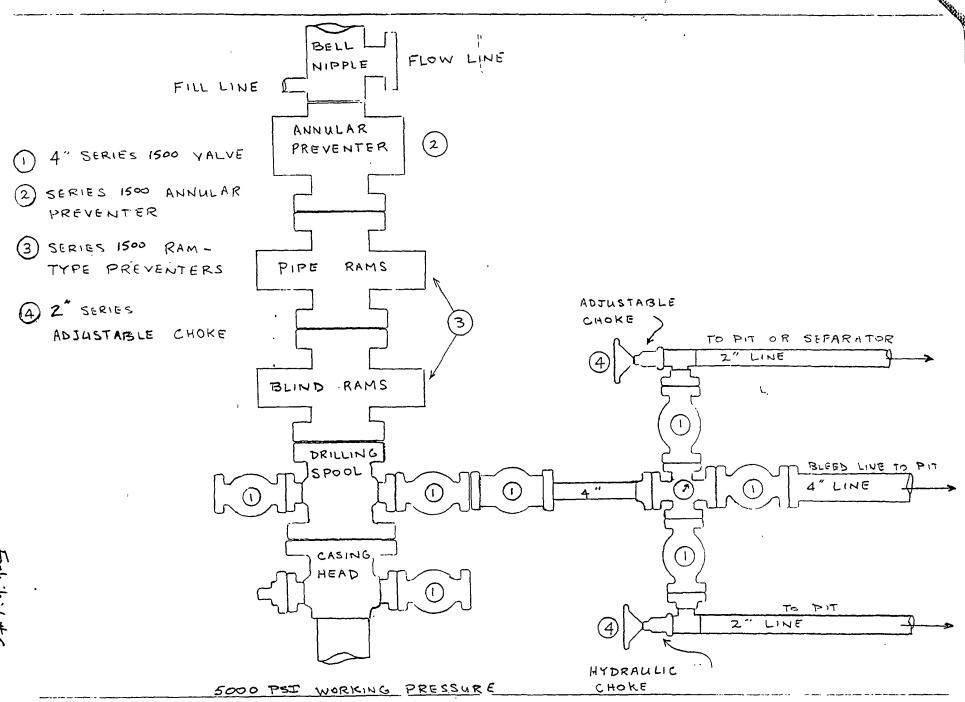
☐ AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number			1	Pool Code					
30-025-38471			Wildcat (Atoka)						
Property (				Well Number					
3658				3					
OGRID No				Elevation					
151416				FASKEN	3788'				
/ Surface Location									
or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
LOT 3	23	12 S	38 E		1980	SOUTH	660	EAST	LEA
			Bottom	Hole Loc	ation If Diffe	rent From Sur	face		
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint o	r Infill Co	nsolidation (	Code Ore	der No.				
320									

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION





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## FASKEN OIL AND RANCH, LTD.

303 W. WALL AVE.

SUITE 1800

MIDLAND, TEXAS 79701-5116

## CONTINGENCY PLAN FOR HYDROGEN SULFIDE DISCHARGE

DRILLING OPERATIONS

## CONTINGENCY PLAN FOR HYDROGEN SULFIDE DISCHARGE

#### **DRILLING OPERATIONS**

HYDROGEN SULFIDE PHYSICAL PROPERTIES AND TOXICITY - Hydrogen sulfide is extremely toxic. The acceptable concentration for eight-hour exposure is 20 ppm, which is .002% by volume. Hydrogen sulfide is heavier than air (specific gravity - 1 192) and is colorless. It forms an explosive mixture with air between 4.3 and 46 0 volume percent Toxicity data for hydrogen sulfide and various gasses are compared in the table below.

Common Name	Chemical Formula	Sp. Gravity (Air =1)	Threshold Limit	Hazardous Limit	Lethal Conc.
Hydrogen Cyanide	HCN	0.94	10 ppm	150 ppm	300 ppm
Hydrogen Sulfide	H₂S	1.18	10 ppm * 20 ppm **	250 ppm/hr	600 ppm
Sulfur Dioxide	SO <sub>2</sub>	2.21	5 ppm		1000 ppm
Chlorine	Cl <sub>2</sub>	2.45	1 ppm	4 ppm/hr	1000 ppm
Carbon Monoxide	СО	0.97	50 ppm	400 ppm/hr	1000 ppm
Carbon Dioxide	CO <sub>2</sub>	1.52	5000 ppm	5%	10%
Methane	CH₄	0 55	9%	Combustabe above 5% in air	

<sup>\*</sup>Threshold Limit - concentration at which it is believed that all workers may be repeatedly exposed day after day without adverse effects, 10 ppm = 1972 ACGIH concentration (American Conference of Governmental Industrial Hygienist).

<sup>\*\*</sup>Threshold Limit = 20 ppm - 1966 ANSI acceptable ceiling concentration for eight-hour exposure (based on a 40-hour week) per OSHA Rules and Regulations (Federal Register, Vol. 37, #202, Part II, dated October 18, 1972.

II. PHYSICAL EFFECTS OF HYDROGEN SULFIDE - The physiological effects of hydrogen sulfide are summarized in the table below

Percent Vol.	Concentration ppm	Physical Effects
0.001	10	obvious and unpleasant odor.
0.002	20	Safe for 8-hour exposure.
0.01	100	Kills smell in 3 to 15 minutes, may sting eyes and throat.
0.02	200	Kills smell shortly, stings eyes and throat.
0.05	500	Dizziness, breathing ceases in a few minutes, needs prompt artificial resuscitation.
0.07	700	Unconscious quickly, death will result if not rescued promptly
0.10	1000	Unconscious at once, followed by death within minutes

- ACCIDENTAL RELEASE OF HYDROGEN SULFIDE The possible release of hydrogen sulfide gas could result from leakage at either wellhead, flow lines, separators or drill string at this drilling location
  - A. In the event of an accidental release, the tool pusher, supervisor or agent of the operator in the vicinity at the time of the discharge will be in charge of all activities on the ground and shall be responsible for the following.
    - 1. Notify all personnel, Company or outside, that are in the area to evacuate as soon as possible. This includes drilling rig crews, roustabout gangs, supervisory personnel, maintenance personnel, sales representatives, farm or ranch hands, visitors and all others that may be in the vicinity.
    - 2. Notify the County Sheriff's office, and the Department of Public Safety, and request their assistance to provide road blocks and direct traffic away from the drilling location. They should also be asked to assist in the evacuation of residents, if any, in affected area.
    - 3. Alert local Hospital and Fire Department in the event that medical services or ambulance assistance is needed.

- 4. Call the Operations Manager in the Midland Office and advise him of the nature and extent of the emergency situation.
- B. Operations Manager or his assistant will notify the appropriate state and federal agencies that the contingency plan has been activated and what level and type of reaction has already been initiated.
- C. Fasken's Senior Representative or employee on the scene will be in charge and shall initiate measures necessary to bring the gas flow under control securing whatever additional personnel and equipment are necessary to control the flow in the shortest time thereby reducing potential exposure of the general public to hydrogen sulfide.
- IV. **WEATHER CONDITIONS** During adverse weather conditions such as drizzle, rain, fog, calm winds, and snow, hydrogen sulfide collects in low lying areas. These areas should be avoided, any personnel in such areas should be evacuated, and law enforcement personnel should be requested to keep people and traffic from entering. Should moderate, undirectional winds be blowing hydrogen sulfide from the source of the discharge toward a populated area, residents and other personnel should be evacuated by law enforcement personnel who should then maintain an exclusion perimeter to avoid people from reentering the area until the emergency is over.
- V. TERMINATION OF EMERGENCY AND FOLLOW-UP PROCEDURES Fasken's Senior Representative or employee on the scene, with the cooperation of the Senior Law Enforcement Officer in whose jurisdiction the emergency occurred, will declare the emergency terminated when there is no further danger to oilfield personnel or general public. This will occur only after a sufficient number of gas measurements in the vicinity have been made by a qualified technician showing that hydrogen sulfide concentration is below the 20 ppm threshold. In addition, the Operator's Senior Representative or employee will perform the following duties connected with the emergency.
  - A. Notify all cooperating law enforcement agencies and emergency medial services that the emergency has been terminated.
  - B. Notify all evacuees that they may return safely to their residences or job sites.
  - C. Make an estimate of damages and/or expenses incurred in the control of the emergency, the evacuation of any persons and the destruction of property, if any, including domestic animals and livestock. He is to make an itemized list of all such damages and/or expenses along with their addresses, and any other specific information pertinent to the situation. He is to deliver this list to the Operations Manager as soon as possible.
  - D. <u>UNDER NO CIRCUMSTANCE</u> are damage estimates, names of affected personnel, if any, or any other information pertaining to the emergency to be given to the press. Public information regarding the emergency will be issued by headquarters office in Midland, Texas.
- VI. Copies of the Contingency Plan are available in Fasken's office in Midland, Texas.
- VII This plan is subject to approval of the state and federal agencies and shall be revised as required